THEATER BATTLE MANAGEMENT CORE SYSTEMS (TBMCS) APPLICATIONS OVERVIEW

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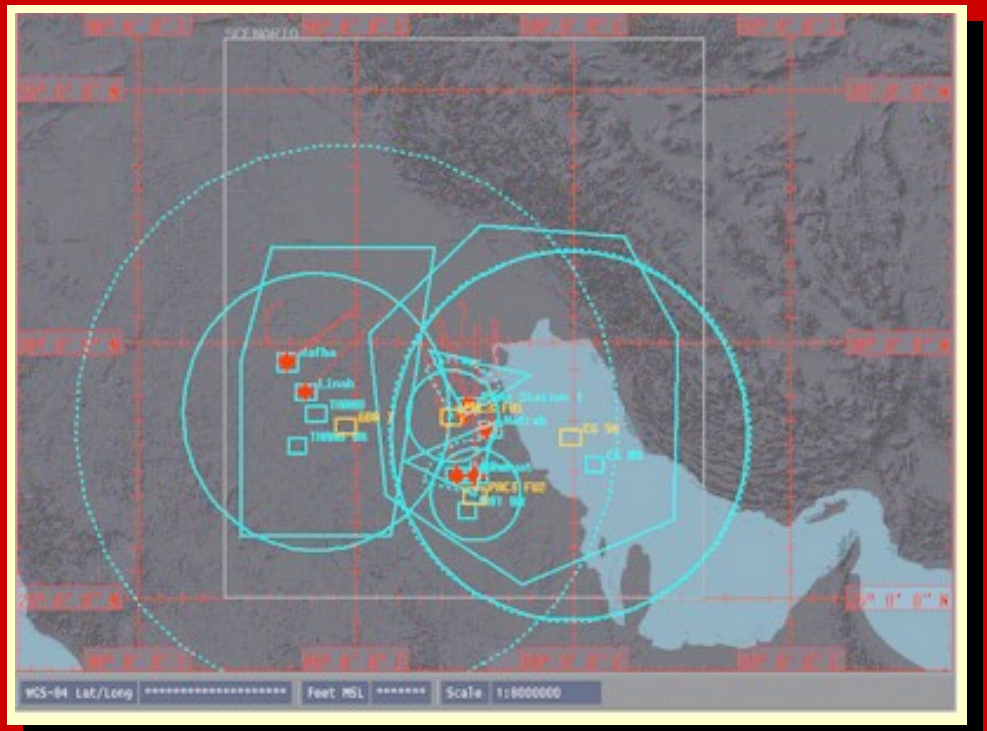
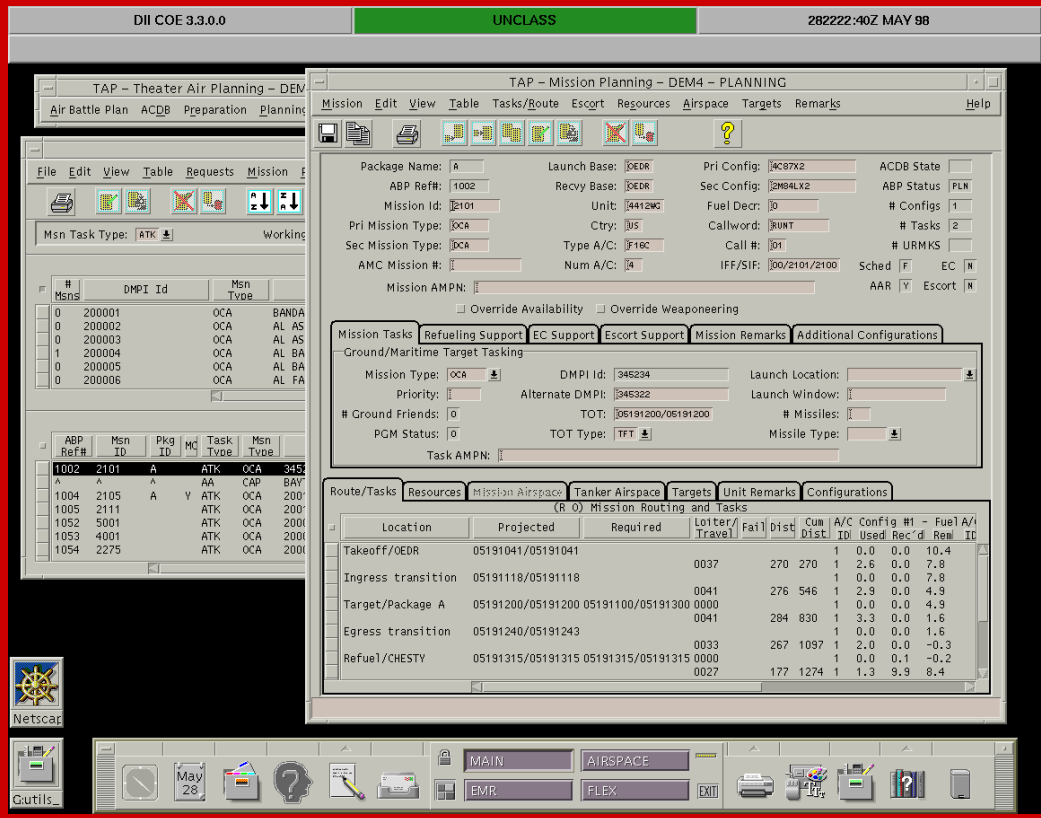
Joint Defensive Planner (JDP)

- Graphically Display the Theater Missile and Air Defense situation
- Analytical Tools for Evaluation of Prospective TMD Plans
- Terrain, Sensor Coverage, and Radar Placement Analysis
- Produces TACOPDAT Message
- JCCB Designated Joint Module



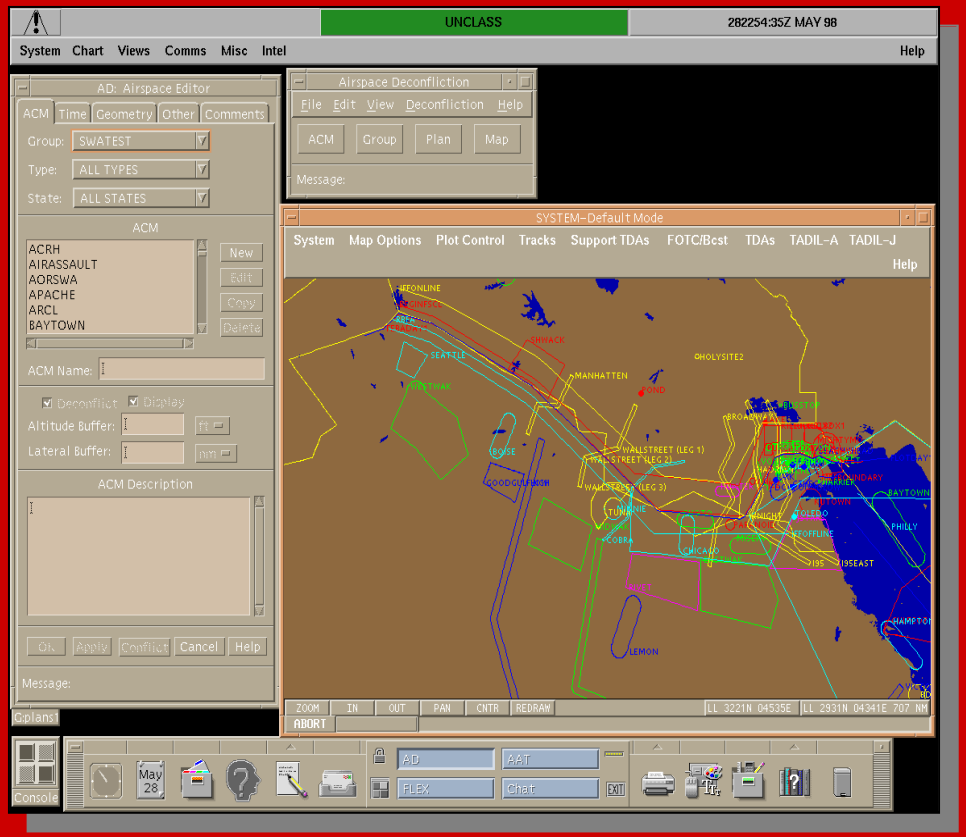
Theater Air Planner (TAP)

- Develops Air Battle Plan and Publishes ATO
  - Plans Missions
  - Plans Packages
- Imports C2IPS Airlift Missions
- Output is ABP and ATO message.
  - ABP to AODB and EMRDB
  - ATO message to Wings
- JCCB Designated Joint Module



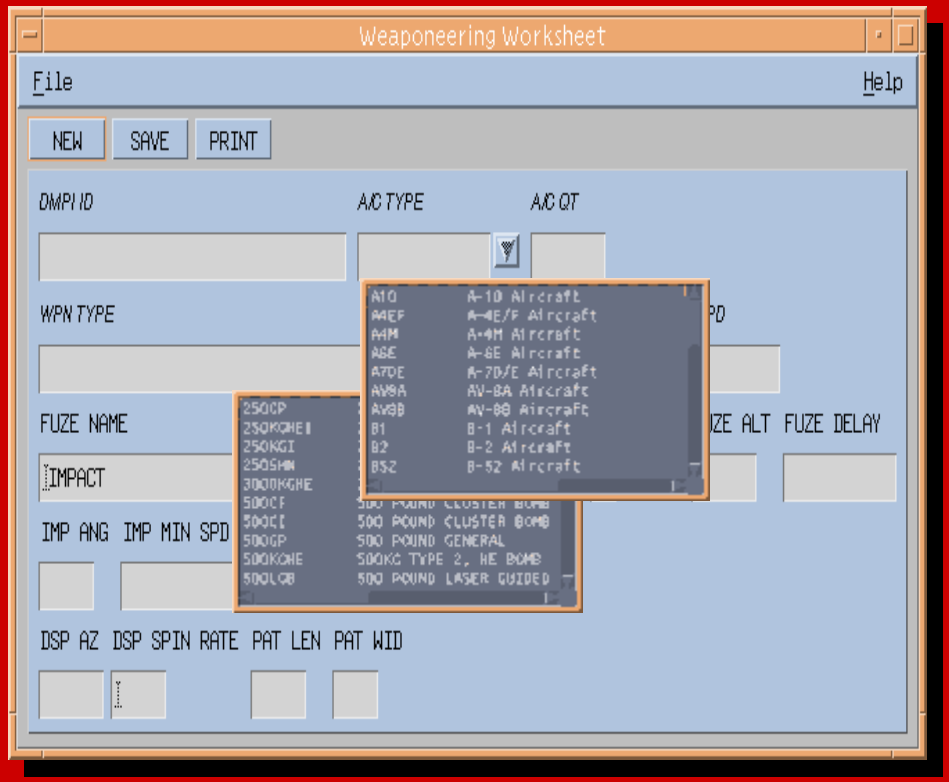
Airspace Deconfliction (AD)

- **Purpose - Develop Airspace Plan**
- **Replaces Airspace Deconfliction System (ADS)**
- **Works with Joint Mapping Tool Kit (JMTK) Map to Display, Airspace**
- **Outputs ACO to AODB and Message to Subordinate Units**
- **JCCB Designated Joint Module**



Targeting and Weaponeering Module (TWM)

- Produces CTL and TNL
- DMPI Development
- Supports Collaborative Development of Target Nominations
- Query and Retrieve Digital Target Materials
- Access, Retrieve, and Display Data From Intel Data Base
- JCCB Desigated Joint Module



Intelligence Data Management (IDM)

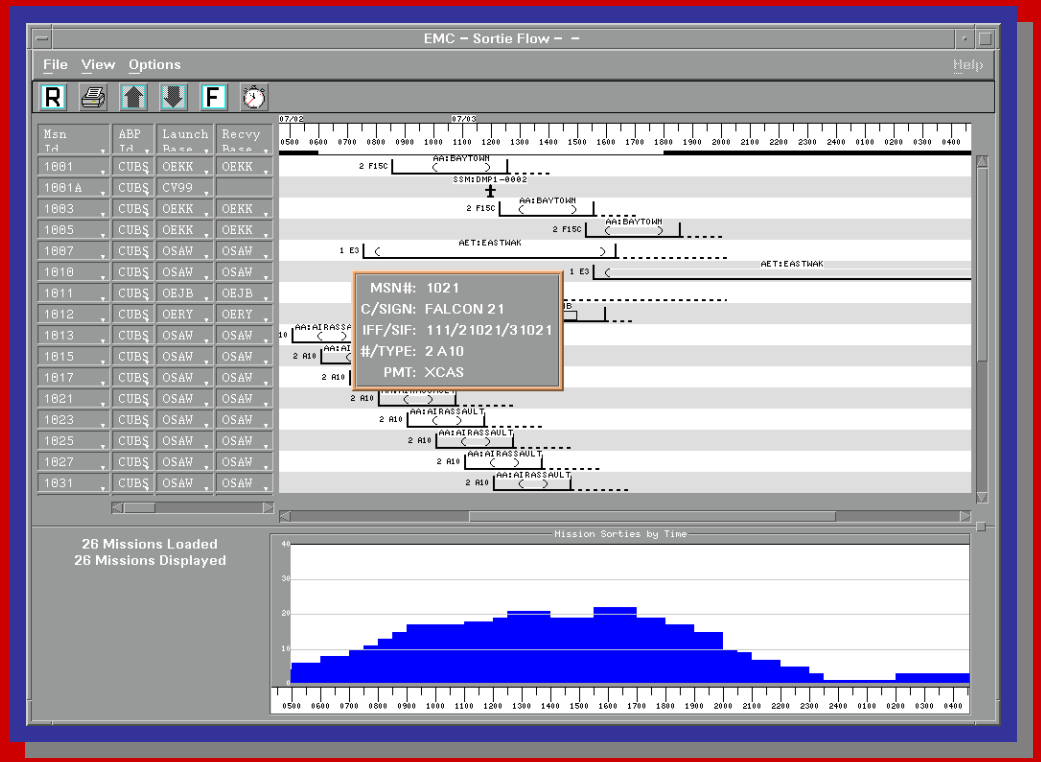
- Capability to access, retrieve, display, and maintain intelligence data
- Provides query capability

- Export OB extracts to the AFMSS
- Extraction of Targeting data

Nominated as Joint Module

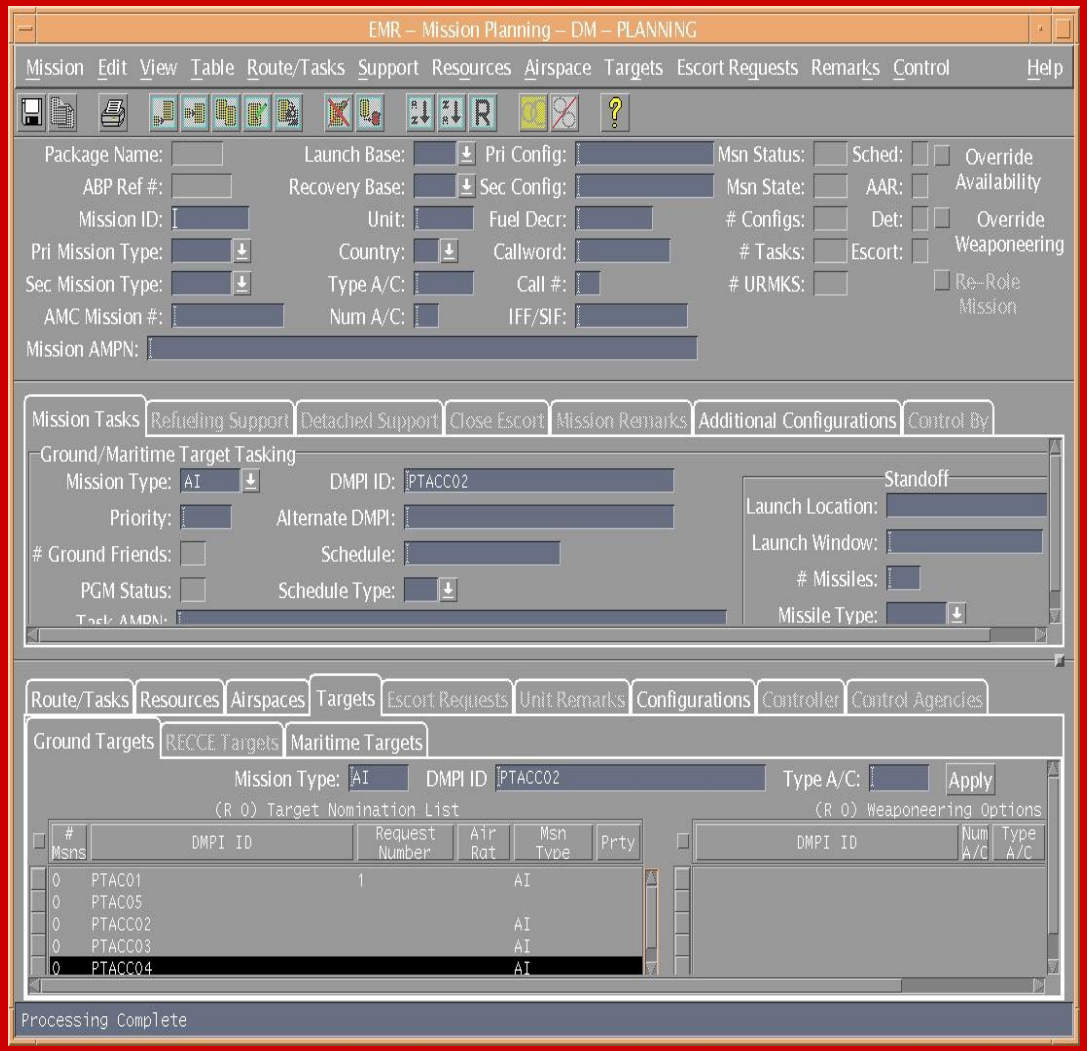
Execution Management Control (EMC)

- **Primary Combat Ops Tool for Monitoring ATO Execution**
- **Makes Updates of Status in AODB (Missions, Bases, Units)**
- **Replacement for Computer Assisted Force Management System for X-Windows (CAFMS-X)**
- **JCCB Designated Joint Module**



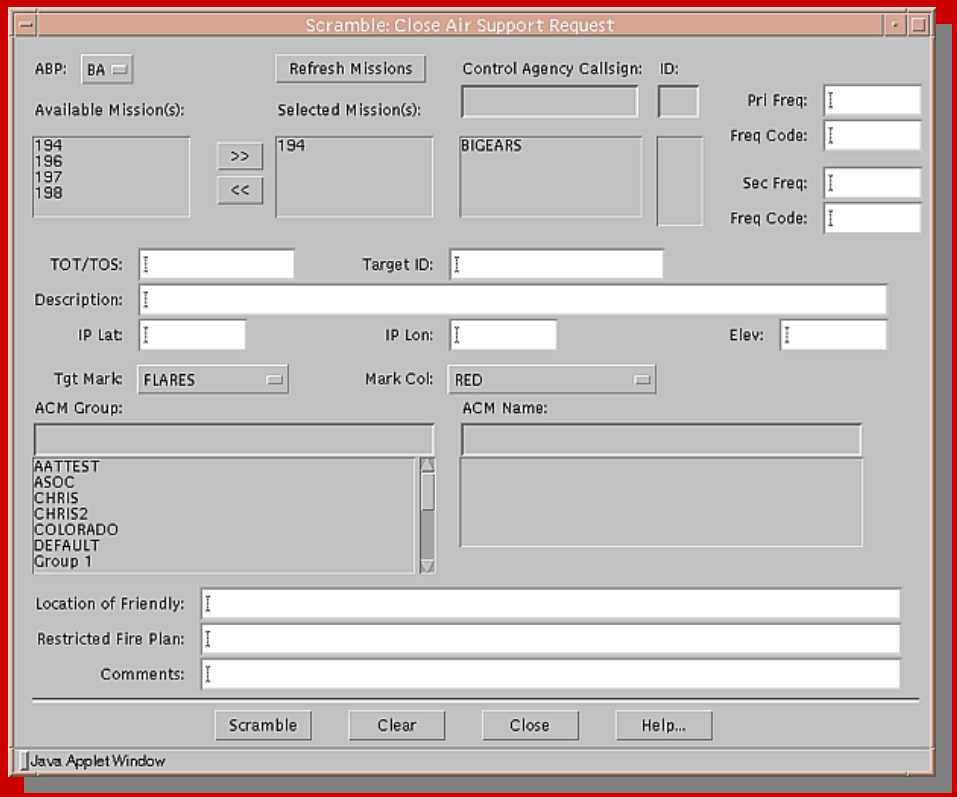
Execution Management Replanner (EMR)

- Generates and distributes changes (new missions, cancelled missions) to the ABP and ATO Changes
- Identical to TAP except for Monitoring
- JCCB Designated Joint Module



Execution Management Scramble (EM-Scramble)

- Allows the user to enter a DCA, RECCE, or CAS scramble request
- Request paired with user-selected ground-alert missions
- Once paired with a mission, a scramble order and user alert is issued
- JCCB Designated Joint Module



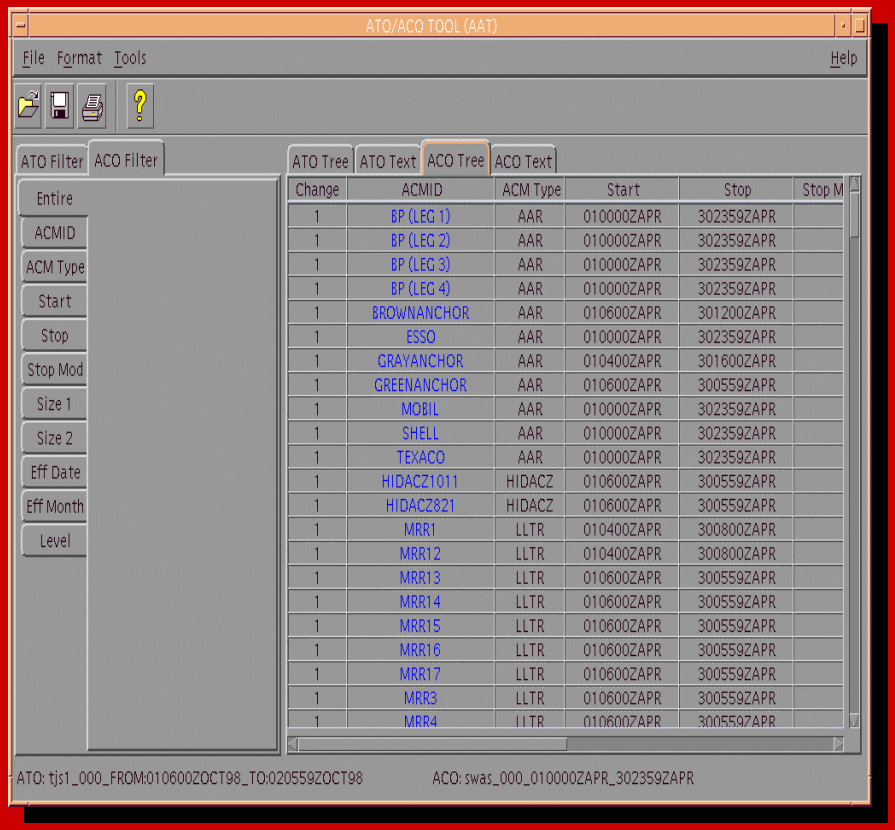
Execution Management Reports (EM Reports)

- **Provides the ability to query and view information in the AODB in report format.**
- **Reports are used to perform the following tasks:**
  - **Monitoring the status of missions.**
  - **Preparation of ABP, mission, and friendly order of battle report information used in briefings**
  - **Operator Definable**

- JCCB Designated Joint

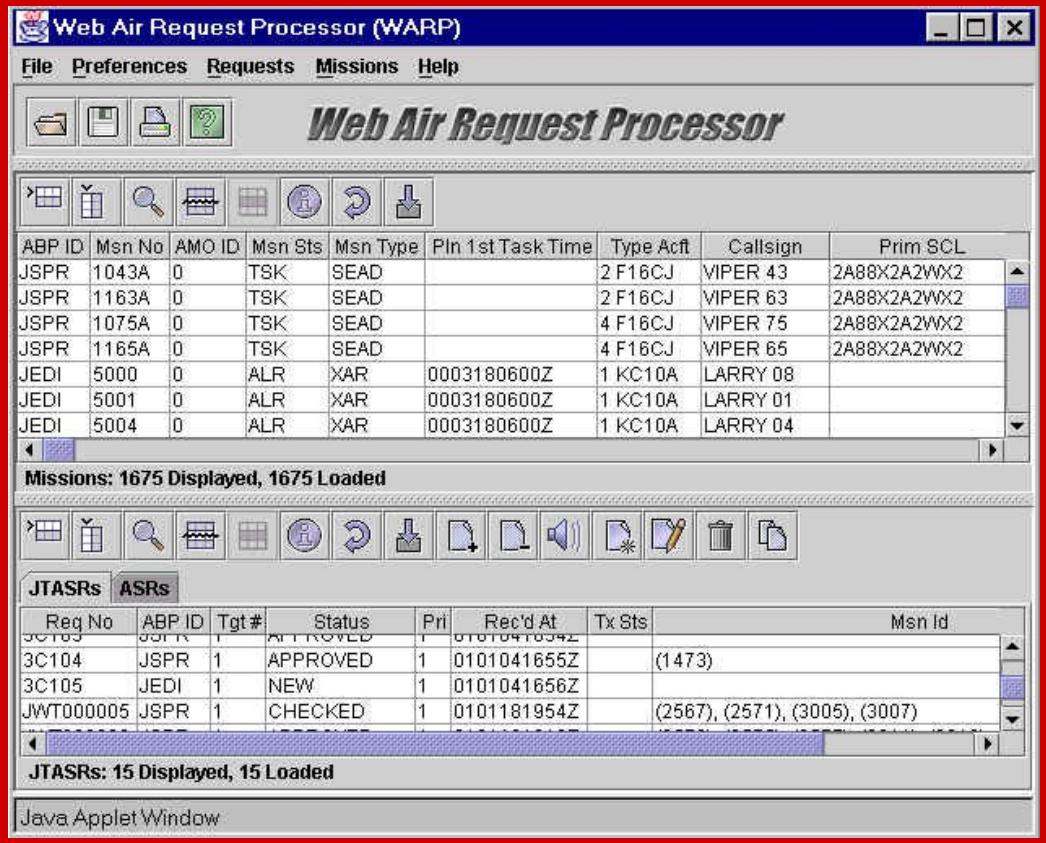
ATO/ACO Tool (AAT)

- **Tool to View an ATO or an ACO in either tree or USMTF text format.**
- **Can sort/parse ATO or ACO by various fields.**
- **3 “versions”: Web AAT, UNIX AAT, Standalone (PC or UNIX) AAT**
- **JCCB Designated**



Web Air Request Processor (WARP)

- Provides the ability to receive and process Immediate Air Requests
  - Via AFATDS
  - Manually Entered
- Pair air requests with available missions
- Plot Joint Tactical Air Requests (JTARs) on JMTK Map (System Chart)
- JCCB Designated Joint Module


Web Air Request Processor (WARP)
File Preferences Requests Missions Help
Web Air Request Processor
ABP ID | Msn No | AMO ID | Msn Sts | Msn Type | Pln 1st Task Time | Type Acft | Callsign | Prim SCL
JSPR | 1043A | 0 | TSK | SEAD | | 2 F16CJ | VIPER 43 | 2A88X2A2WX2
JSPR | 1163A | 0 | TSK | SEAD | | 2 F16CJ | VIPER 63 | 2A88X2A2WX2
JSPR | 1075A | 0 | TSK | SEAD | | 4 F16CJ | VIPER 75 | 2A88X2A2WX2
JSPR | 1165A | 0 | TSK | SEAD | | 4 F16CJ | VIPER 65 | 2A88X2A2WX2
JEDI | 5000 | 0 | ALR | XAR | 0003180600Z | 1 KC10A | LARRY 08
JEDI | 5001 | 0 | ALR | XAR | 0003180600Z | 1 KC10A | LARRY 01
JEDI | 5004 | 0 | ALR | XAR | 0003180600Z | 1 KC10A | LARRY 04
Missions: 1675 Displayed, 1675 Loaded
JTASRs ASRs
Req No | ABP ID | Tgt # | Status | Pri | Rec'd At | Tx Sts | Msn Id
3C104 | JSPR | 1 | APPROVED | 1 | 0101041655Z | | (1473)
3C105 | JEDI | 1 | NEW | 1 | 0101041656Z | |
JWT000005 | JSPR | 1 | CHECKED | 1 | 0101181954Z | | (2567), (2571), (3005), (3007)
JTASRs: 15 Displayed, 15 Loaded
Java Applet Window

Web Execution Management (Web EM)

- Provides the ability to monitor, update and adjust mission and base status utilizing a web based NT machine
- Read only permissions, or read and write permissions
- Provides limited capability of UNIX remote (no Sortie

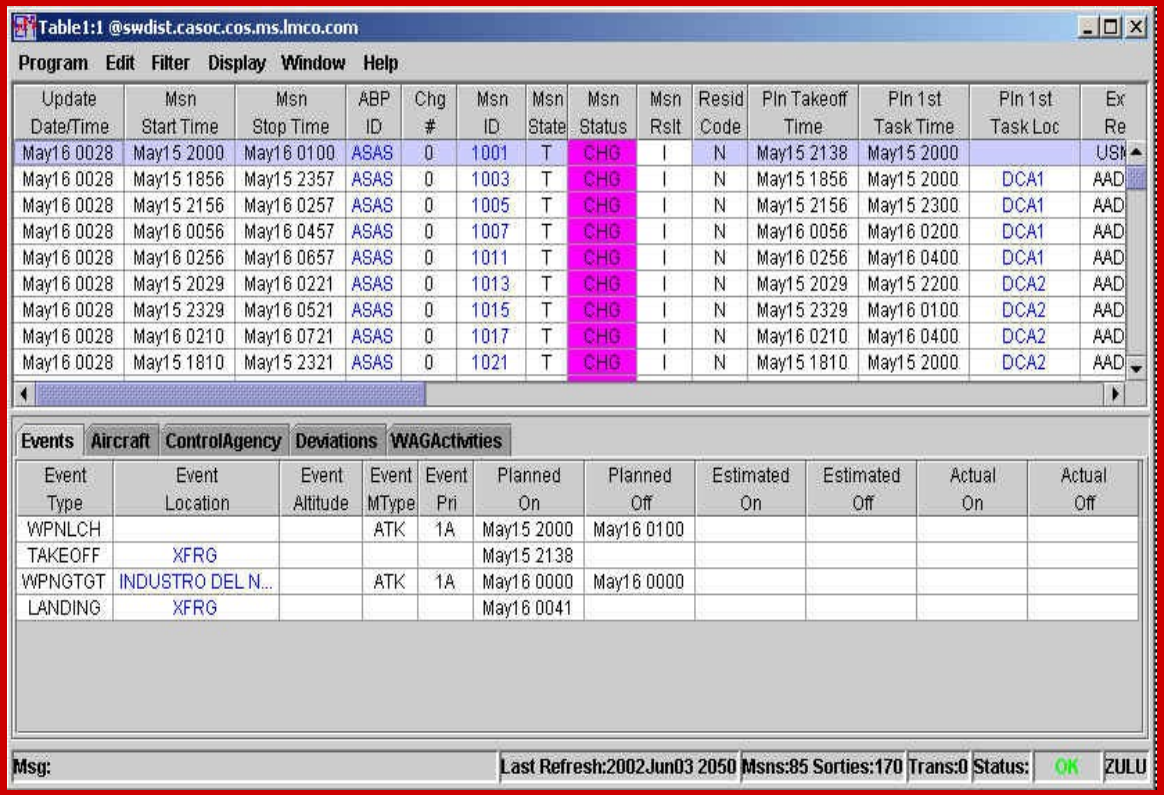
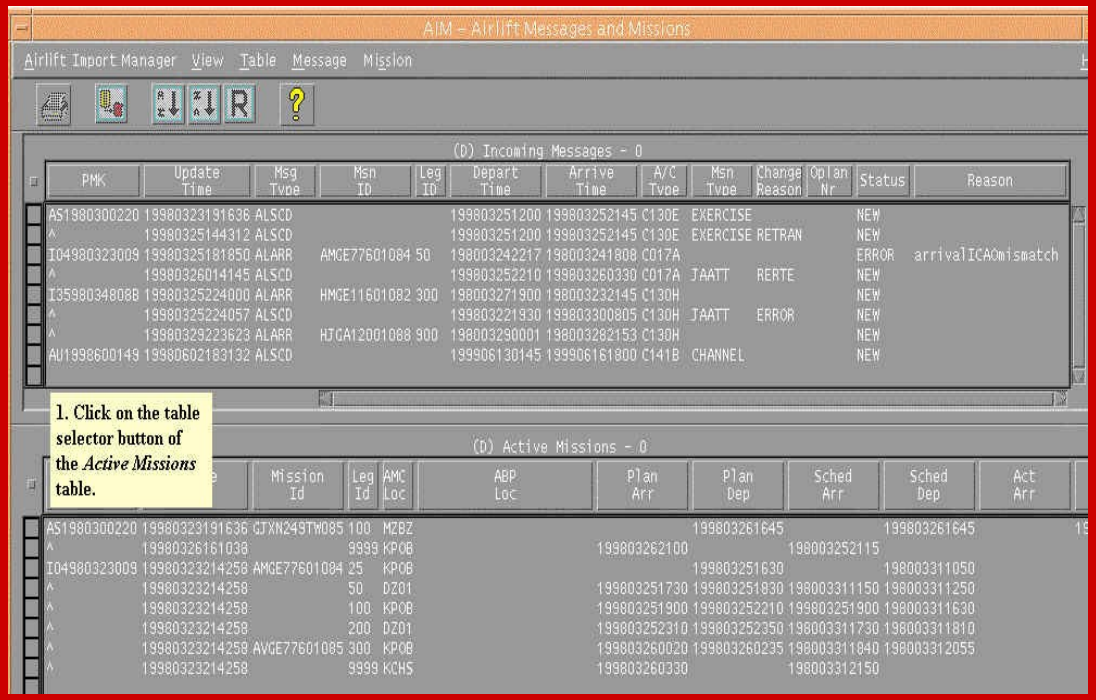


Table1:1 @swdist.casoc.cos.ms.lmco.com
Program Edit Filter Display Window Help
Update Date/Time | Msn Start Time | Msn Stop Time | ABP ID | Chg # | Msn ID | Msn State | Msn Status | Msn Rslt | Resid Code | Pln Takeoff Time | Pln 1st Task Time | Pln 1st Task Loc | Ex Re
May16 0028 | May15 2000 | May16 0100 | ASAS | 0 | 1001 | T | CHG | I | N | May15 2138 | May15 2000 | | USI
May16 0028 | May15 1856 | May15 2357 | ASAS | 0 | 1003 | T | CHG | I | N | May15 1856 | May15 2000 | DCA1 | AAD
May16 0028 | May15 2156 | May16 0257 | ASAS | 0 | 1005 | T | CHG | I | N | May15 2156 | May15 2300 | DCA1 | AAD
May16 0028 | May16 0056 | May16 0457 | ASAS | 0 | 1007 | T | CHG | I | N | May16 0056 | May16 0200 | DCA1 | AAD
May16 0028 | May16 0256 | May16 0657 | ASAS | 0 | 1011 | T | CHG | I | N | May16 0256 | May16 0400 | DCA1 | AAD
May16 0028 | May15 2029 | May16 0221 | ASAS | 0 | 1013 | T | CHG | I | N | May15 2029 | May15 2200 | DCA2 | AAD
May16 0028 | May15 2329 | May16 0521 | ASAS | 0 | 1015 | T | CHG | I | N | May15 2329 | May16 0100 | DCA2 | AAD
May16 0028 | May16 0210 | May16 0721 | ASAS | 0 | 1017 | T | CHG | I | N | May16 0210 | May16 0400 | DCA2 | AAD
May16 0028 | May15 1810 | May15 2321 | ASAS | 0 | 1021 | T | CHG | I | N | May15 1810 | May15 2000 | DCA2 | AAD
Events Aircraft ControlAgency Deviations WAGActivities
Event Type | Event Location | Event Altitude | Event MType | Event Pri | Planned On | Planned Off | Estimated On | Estimated Off | Actual On | Actual Off
WPNLCH | | | ATK | 1A | May15 2000 | May16 0100
TAKEOFF | XFRG | | | | May15 2138
WPNGTGT | INDUSTRO DEL N... | | ATK | 1A | May16 0000 | May16 0000
LANDING | XFRG | | | | May16 0041
Msg:
Last Refresh:2002Jun03 2050 Msns:85 Sorties:170 Trans:0 Status: OK ZULU

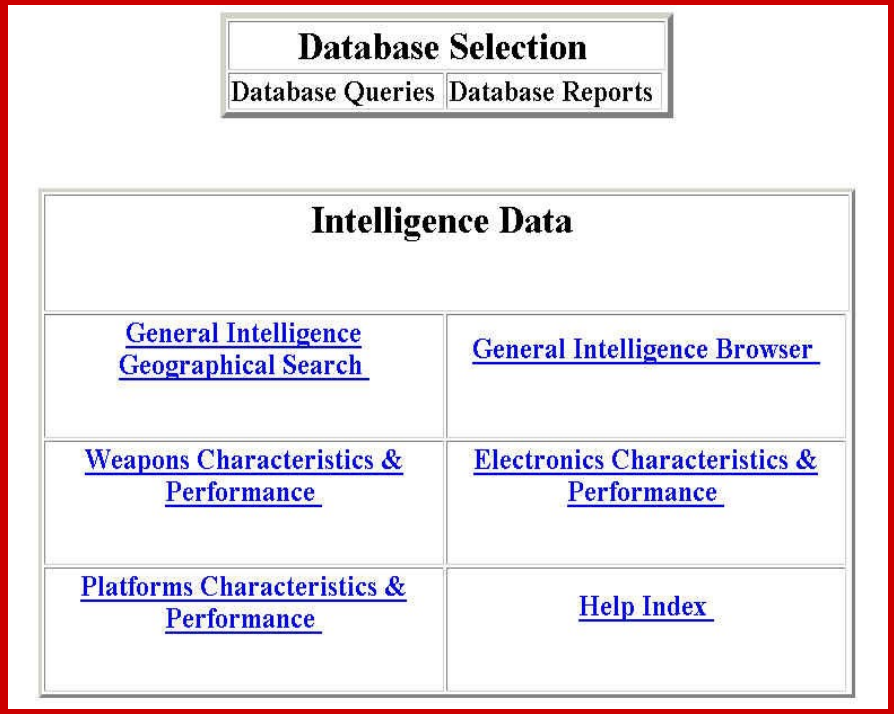
Airlift Import Manager (AIM)

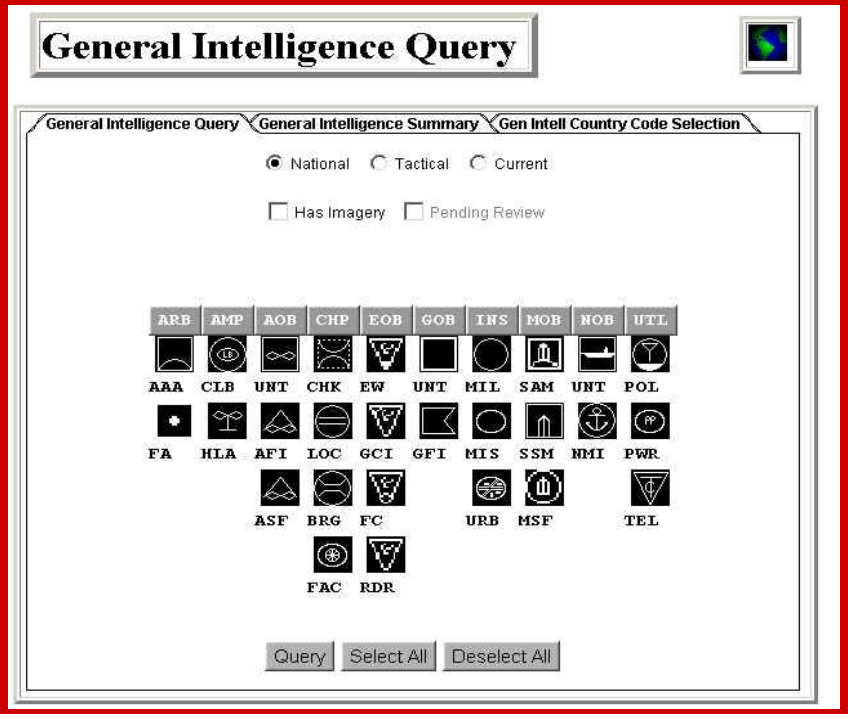
- **Provides the ability to import and prepare external airlift sorties for the daily ATO**
- **Interface to C2IPS for Airlift Missions**
- **Maintain TBMCS Ground truth for Air Force Airlift Missions**



CDS Web

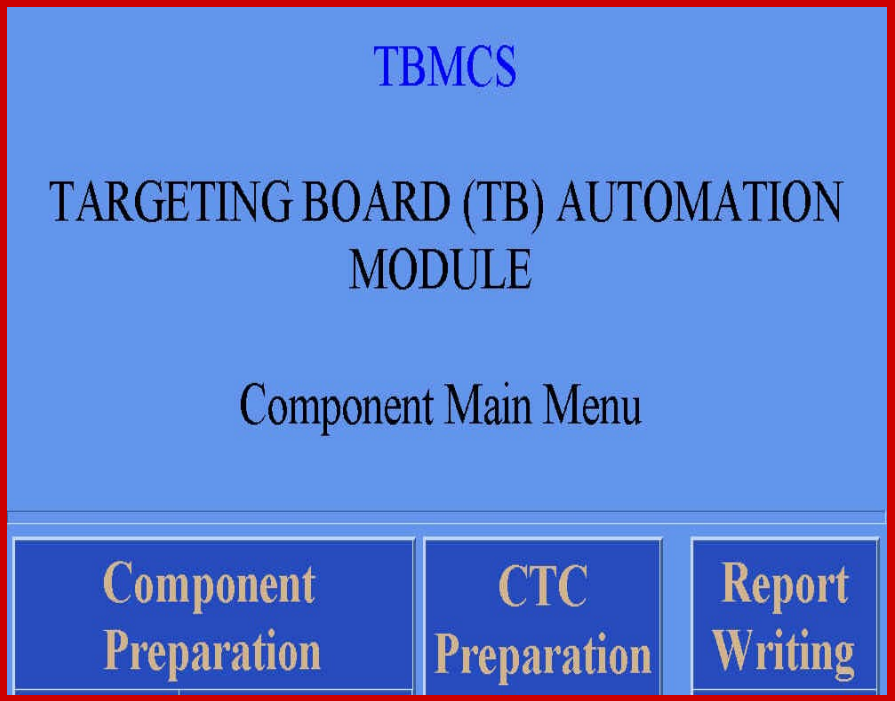
- **Provides the ability to query to MIDB (Intelligence Database) via the Web**
- **Similar to UNIX “Land Track Query”**
- **Not part of USMC Load**





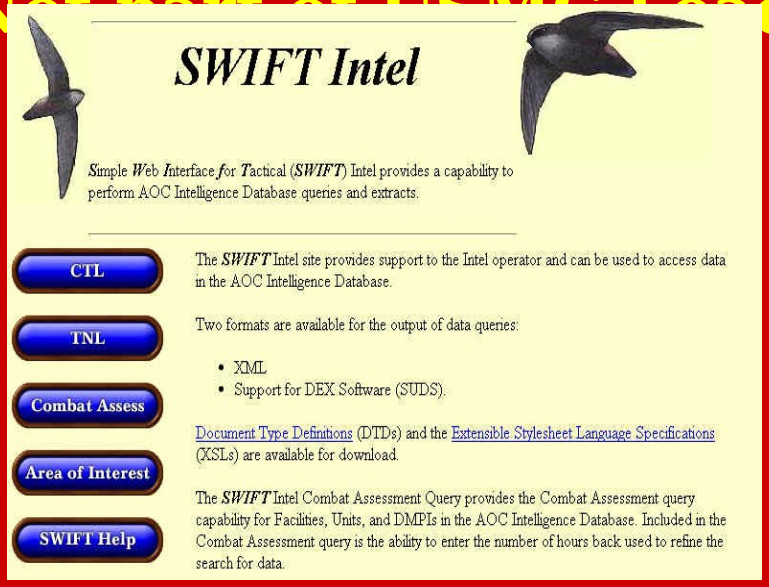
Targeting Board Automation Module (TBAM)

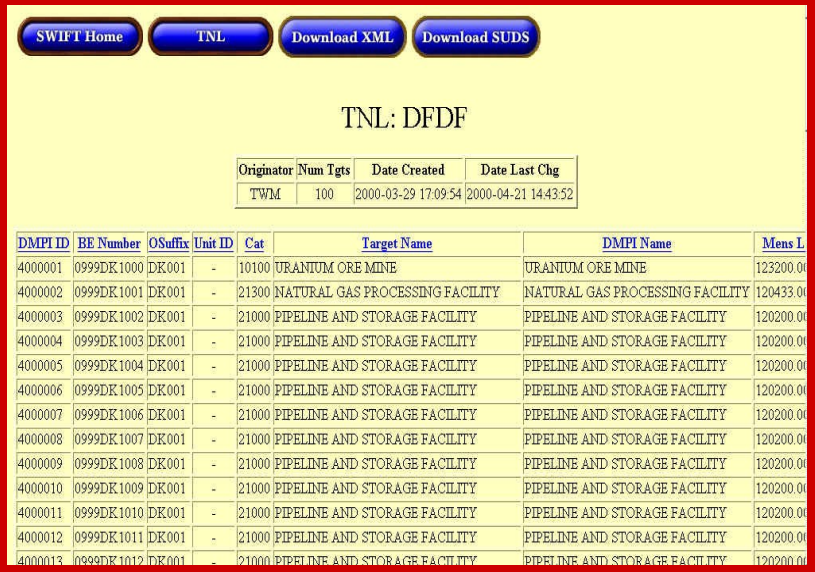
- **Web based targeting tool for preparation of Prioritized Candidate Target List (PCTL)**
- **Interfaces to TWM**
- **Not part of USMC load**



Simple Web Interface for Tactical (SWIFT) Intel

- **Provides a capability to perform AOC Intel database queries and extracts**
  - **Combat Assessment Queries for facilities, units & DMPI's**
- **Not part of USMC Lead**


SWIFT Intel
Simple Web Interface for Tactical (SWIFT) Intel provides a capability to perform AOC Intelligence Database queries and extracts.
CTL
TNL
Combat Assess
Area of Interest
SWIFT Help
The SWIFT Intel site provides support to the Intel operator and can be used to access data in the AOC Intelligence Database.
Two formats are available for the output of data queries:
XML
Support for DEX Software (SUDS).
Document Type Definitions (DTDs) and the Extensible Stylesheet Language Specifications (XSLs) are available for download.
The SWIFT Intel Combat Assessment Query provides the Combat Assessment query capability for Facilities, Units, and DMPIs in the AOC Intelligence Database. Included in the Combat Assessment query is the ability to enter the number of hours back used to refine the search for data.

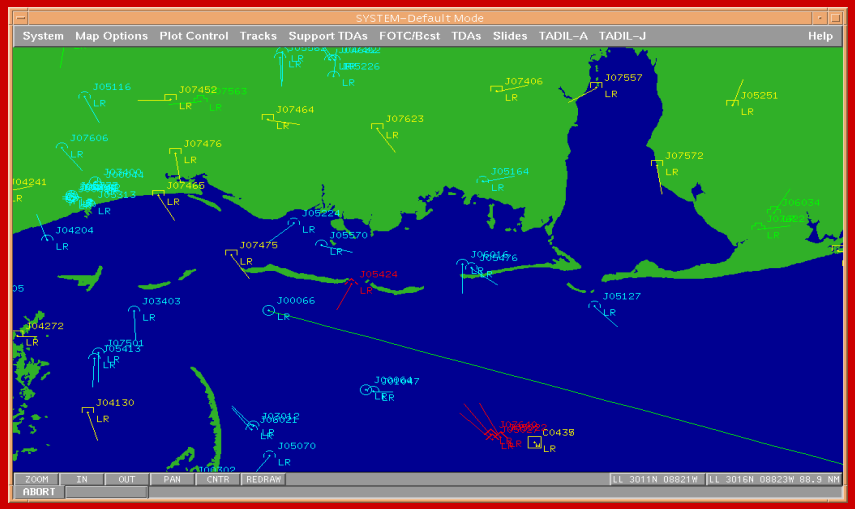


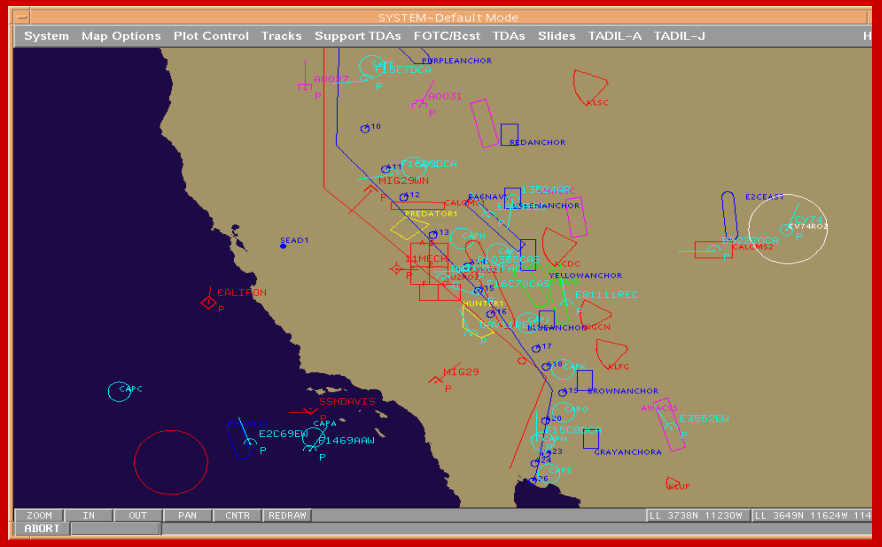
Originator	Num Tgts	Date Created	Date Last Chg
TWM	100	2000-03-29 17:09:54	2000-04-21 14:43:52

DMPI ID	BE Number	OSuffix	Unit ID	Cat	Target Name	DMPI Name	Mens L
4000001	0999DK1000	DK001	-	10100	URANIUM ORE MINE	URANIUM ORE MINE	123200.0
4000002	0999DK1001	DK001	-	21300	NATURAL GAS PROCESSING FACILITY	NATURAL GAS PROCESSING FACILITY	120433.0
4000003	0999DK1002	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000004	0999DK1003	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000005	0999DK1004	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000006	0999DK1005	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000007	0999DK1006	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000008	0999DK1007	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000009	0999DK1008	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000010	0999DK1009	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000011	0999DK1010	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000012	0999DK1011	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0
4000013	0999DK1012	DK001	-	21000	PIPELINE AND STORAGE FACILITY	PIPELINE AND STORAGE FACILITY	120200.0

Situation Awareness & Assessment (SAA)

- Provide near real time view of theater air and ground tracks
- Provides textual and graphic information for FrOB and near real time intel data.
- Maintain Common Operational Picture (COP)
- For USMC,


SYSTEM–Default Mode
System Map Options Plot Control Tracks Support TDAs FOTC/Bcst TDAs Slides TADIL–A TADIL–J Help
ZOOM IN OUT PAN CNTR REDRAW
ABORT


SYSTEM–Default Mode
System Map Options Plot Control Tracks Support TDAs FOTC/Bcst TDAs Slides TADIL–A TADIL–J
ZOOM IN OUT PAN CNTR REDRAW
ABORT

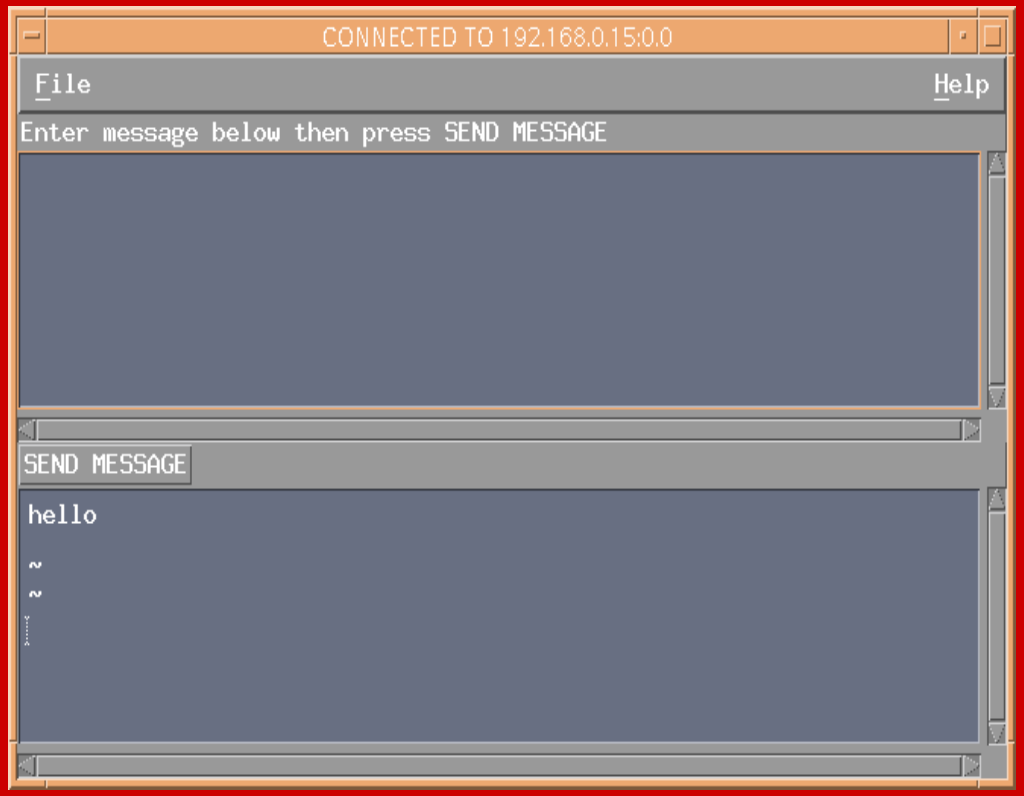
CAOC Central

- Initial Web enabling of TBMCS
  - TBMCS Web page allowing for access to TBMCS secure (I.e., WARP) and non-secure (I.e., web AAT) web based applications
  - Part of Joint Load

CAOC Central - Netscape
File Edit View Go Communicator Help
Operation
Threatcon
MOPP
Wpns Status
Alarm
ABP Exec
ACO Exec
Constant Sentry
Bravo
Charlie
Free
Yellow
JEDI, AIM1
AAT1, T1, TEST
Home
Guidance
Planning
Execution
Unit Tasking
Cell Info
Apps
Admin
CAOC CENTRAL
CAOC Central Special Interest Items
Jan 22, 2001 0900:
The CAOC Central web pages are a first-generation development that will provide the "back end" content for what will eventually become a "TBMCS Portal" presentation (allowing for individualized user customization of page layouts).
The CAOC Central presentation brings in TBMCS data from a variety of TBMCS databases, arrayed for ease of decision-making, and requiring essentially no detailed knowledge of TBMCS application operation, although it is also possible to launch the TBMCS web-based applications from this entry point.
Document: Done
Start
Inbox - Microsoft Outl...
ELVIS Access - Mes...
CAOC Central - N...
8:51 AM

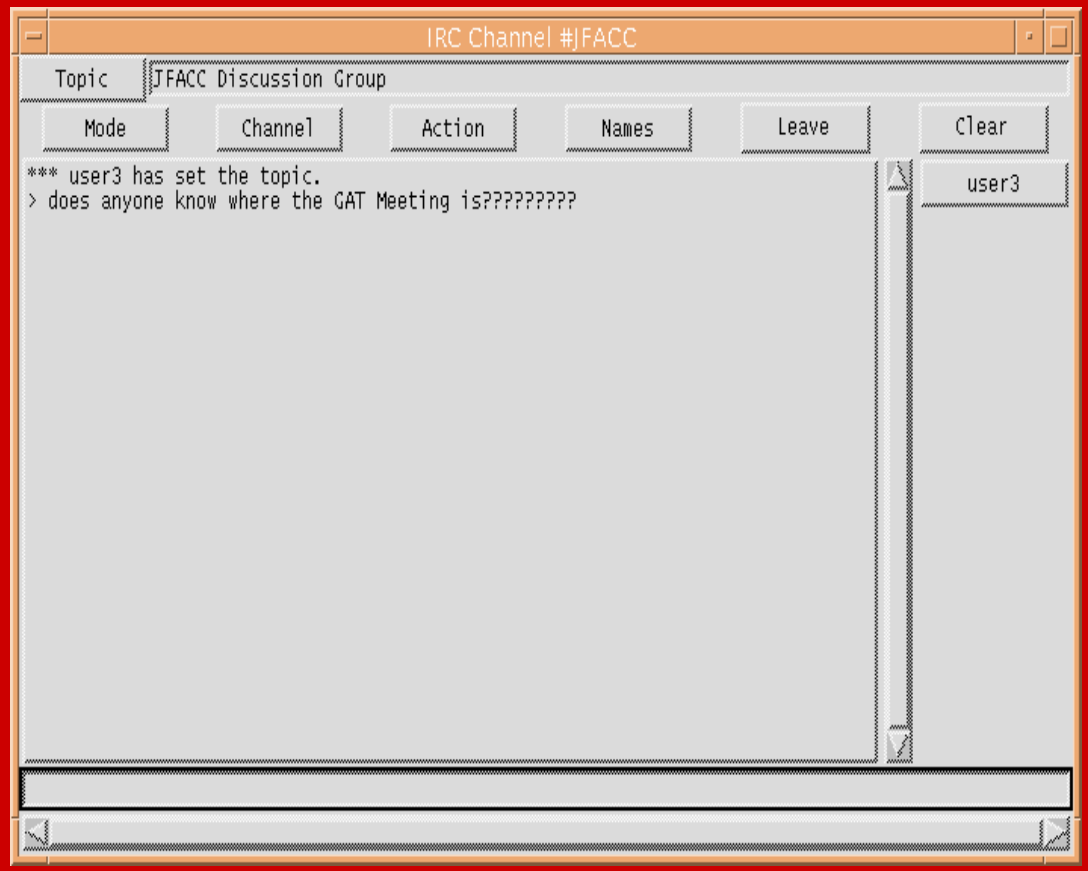
TK Talk

- "Point to Point" Chat Tool
  - Chat utilizing TBMCS profiles
  - Does not require recipient to have TK talk open when session intiated
  - Can have multiple TK Talk Sessions open
  - Part of Joint



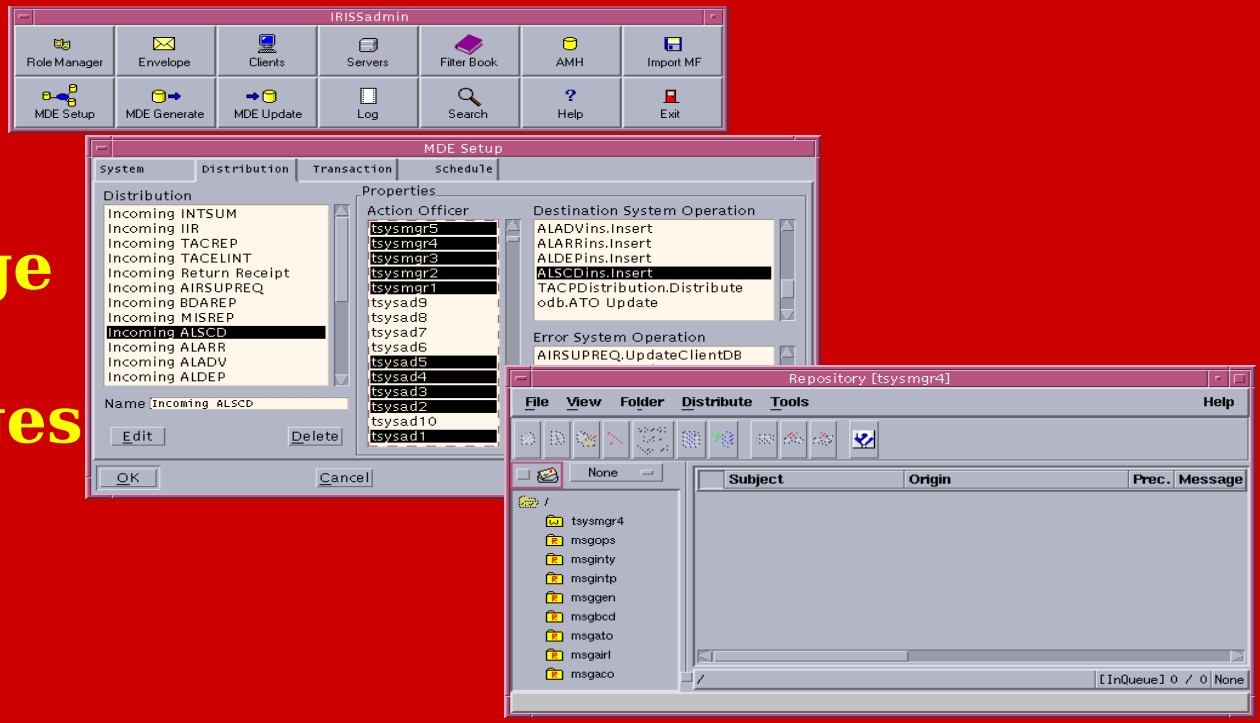
IRC Chat

- **TBMCS Common tool which allows for multiple person text chat capability (I.e., multi-person chat room)**
- **Sessions can be public or private**
- **Part of Joint Load**



IRIS Message Handler

- **TBMCS Message Handler for USMTF messages**
  - **Receives, parses and forwards USMTF messages, once configured**
- **JCCB approved Joint Module**



Data Analysis and Retrieval Tool (DART)

- Web based interface tool which provides for “live” link between TBMCS and MS Office Products
- Can access the Air Ops Database (AODB) or the MIDB
- Can generate operator-configurable report which can be saved to web compatible forms
- Not part of USMC Load

SUN PCI

- PCI card internal to USMC Ultra 60 (UNIX) TBMCS Workstations
  - Allows for the use of Windows applications on TBMCS Unix workstations
  - Access to PC based network services, files and printers
  - Ability to share network resources between the PC and Solaris environment
  - Ability to copy and paste text between Windows and TBMCS applications
- Unique to USMC Ultra 60 Hardware